

## ABSTRACT

A recording medium having wobbled groove tracks out of phase with wobbled land tracks, a servo controlling apparatus using a wobble signal and a method thereof. The recording medium has land tracks and groove tracks, wherein both the land tracks and the 5 groove tracks are wobbled, and wherein the wobbles of either individual groove tracks or individual land tracks are out of phase and the wobbles of the other type of individual tracks are in phase. Thus, it is possible to reliably address whether a groove (or land) track which is currently tracked by the pickup unit is a groove track or a land track, thereby ensuring addressing, and servo control can be effectively performed.